

FIGURE 2

199A
Probe-Array Analysis
Applications Executables
(with related data structures)

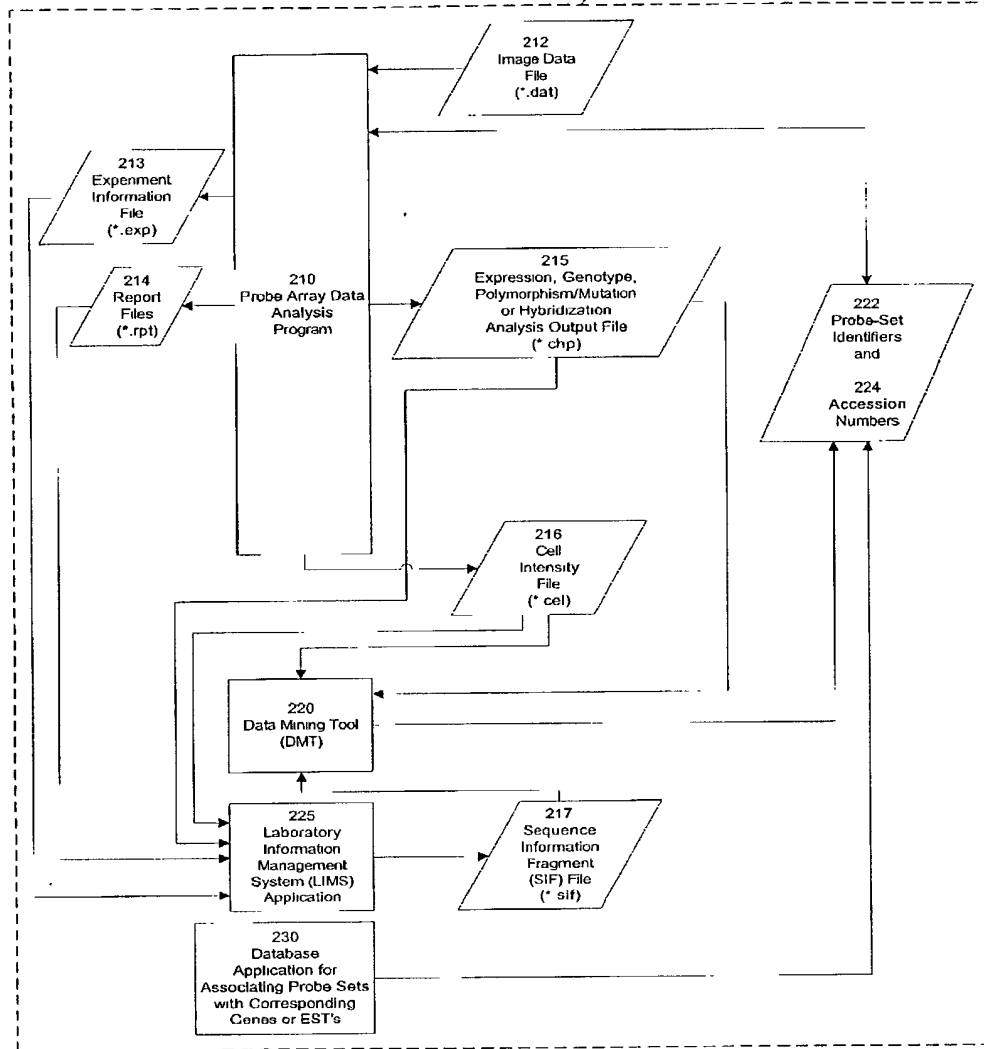


FIGURE 3
(PRIOR ART)

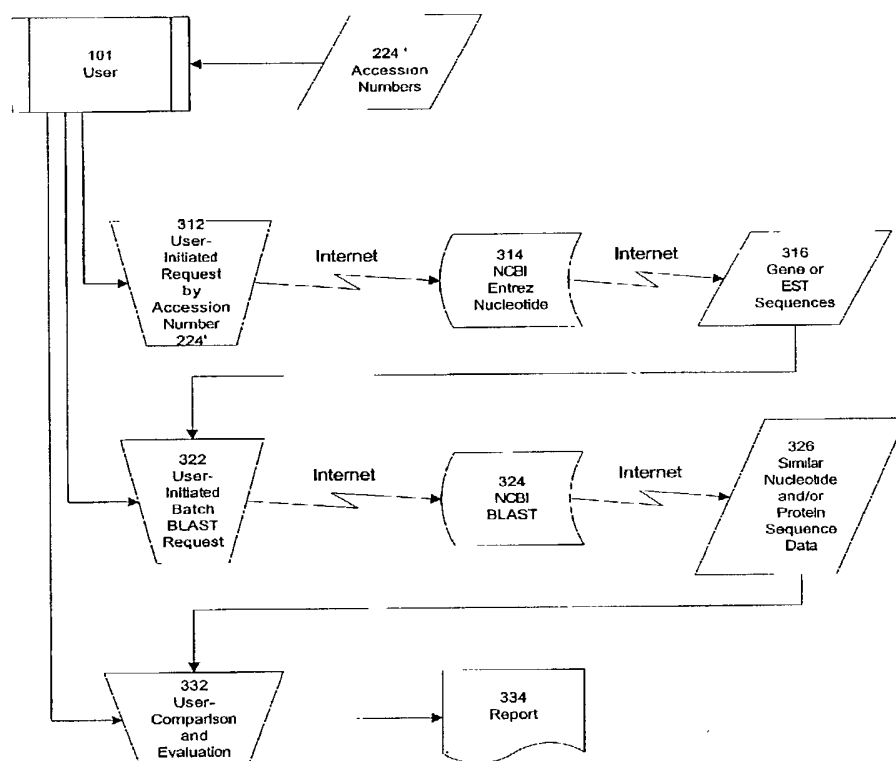
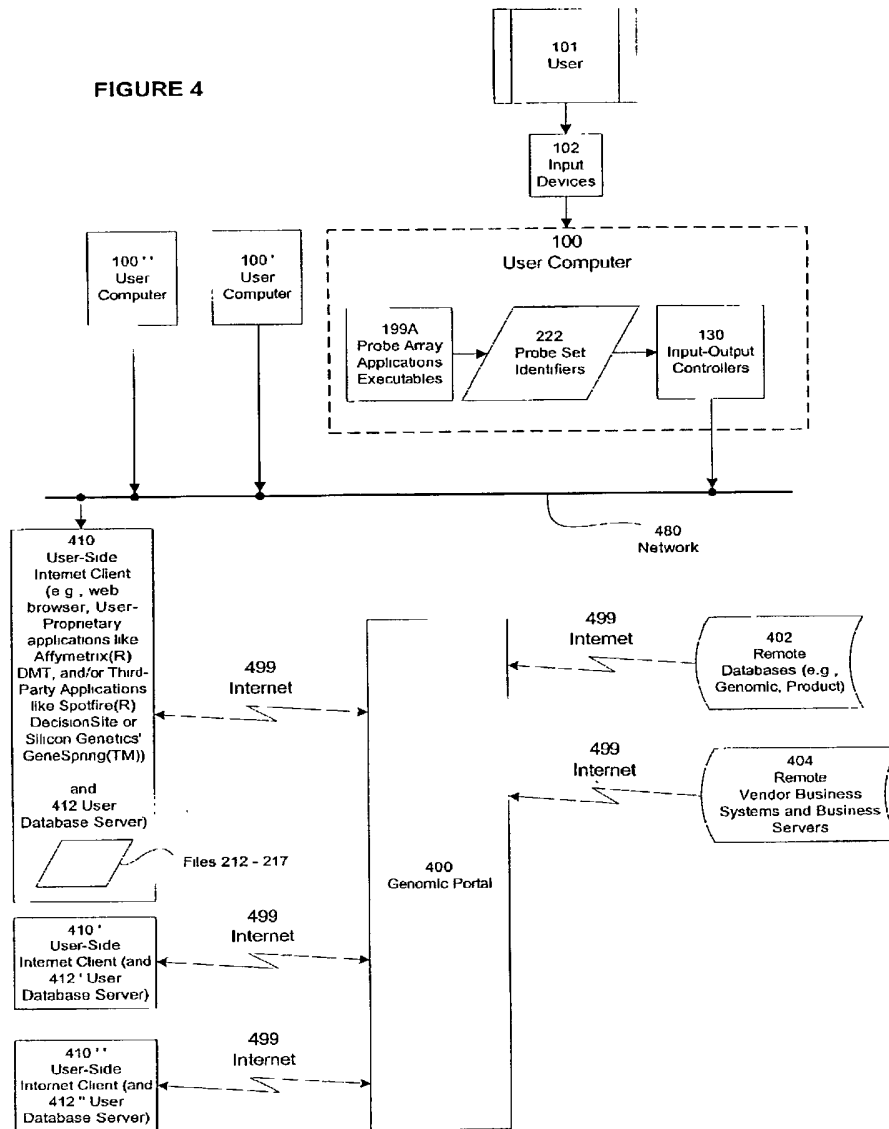


FIGURE 4



400
Genomic
Portal

FIGURE 5

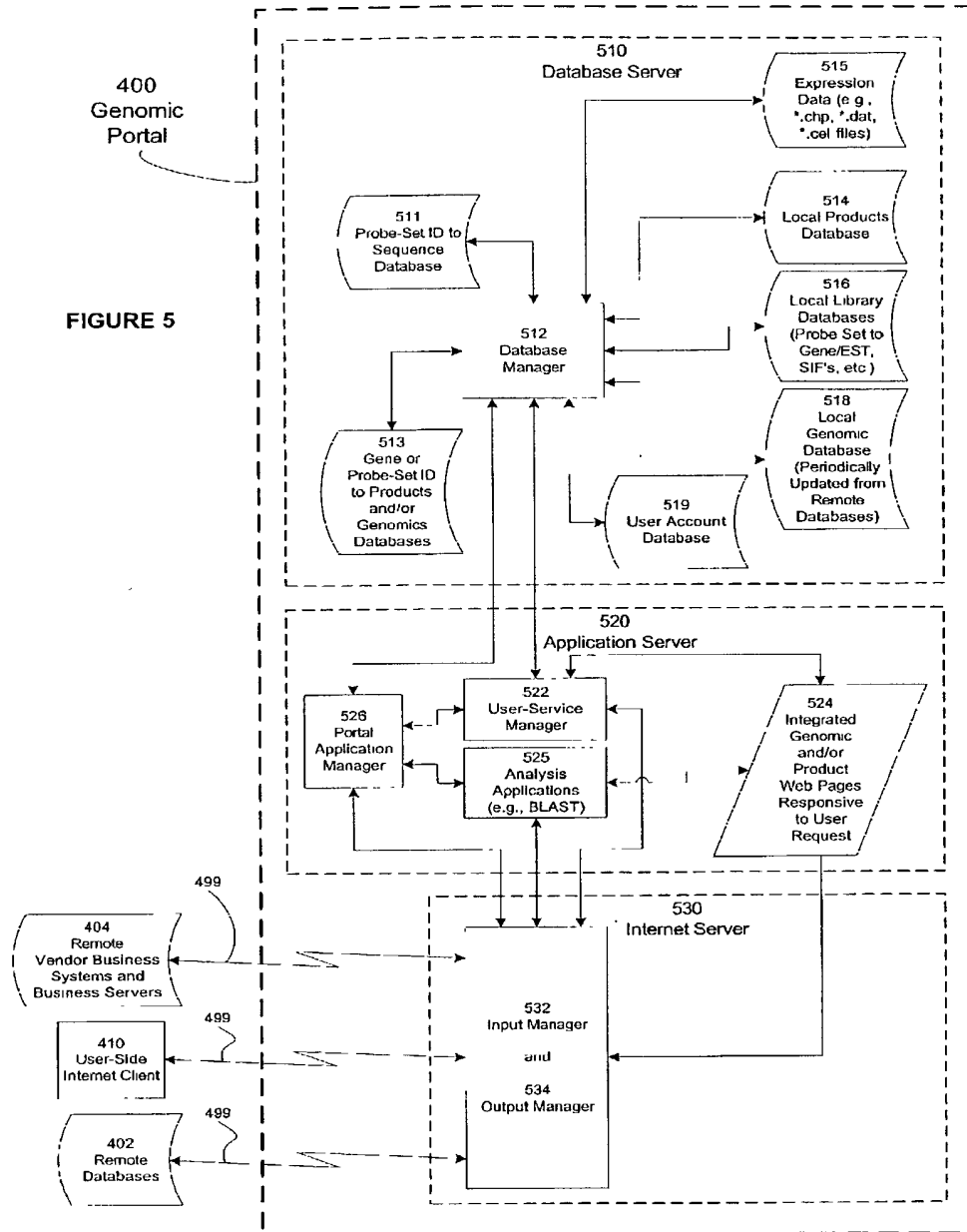


FIGURE 6

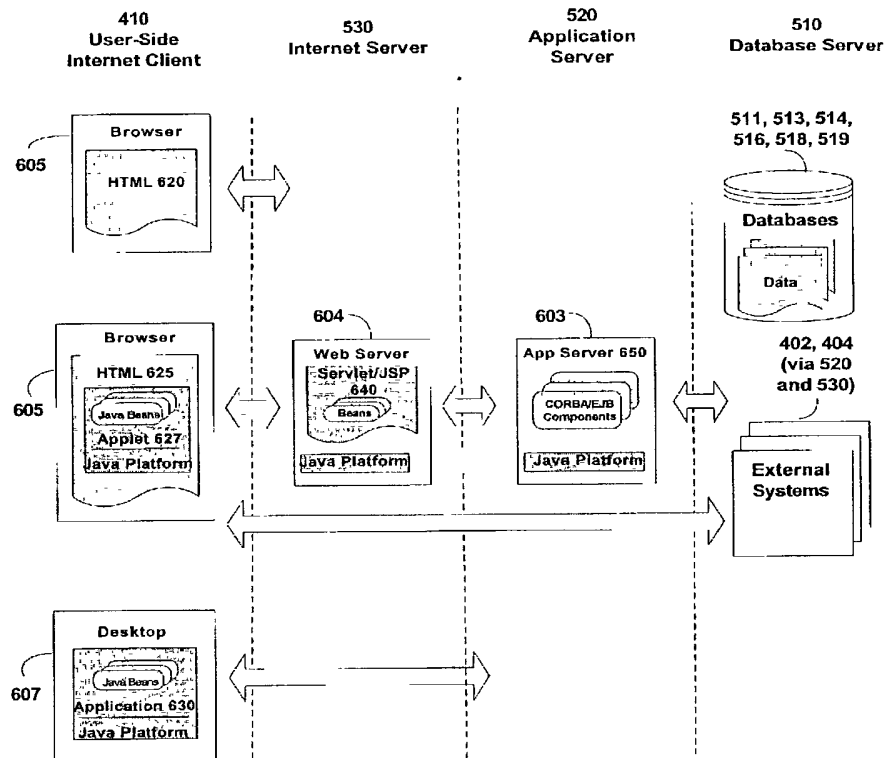
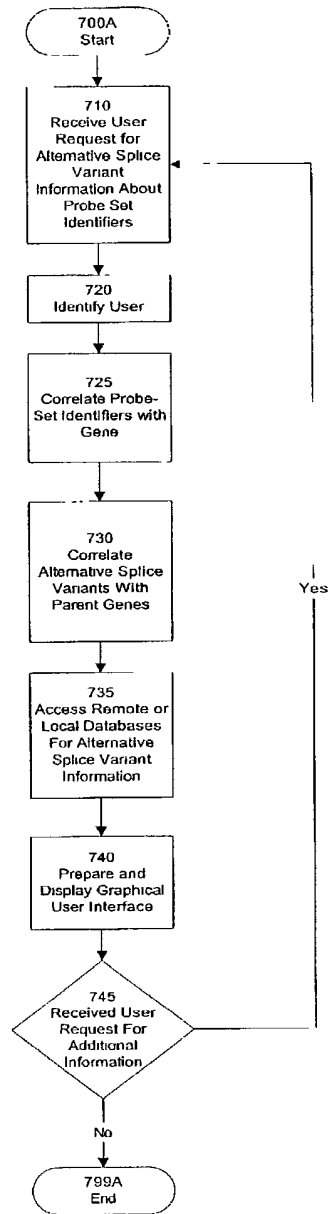


FIGURE 7A



```
graph TD
    700B([700B Start]) --> 750[750 Receive User Selection of Probe Set Identifiers and Probe Array Format]
    750 --> 755[755 Identify User]
    755 --> 757{757 Did User Input Sequence For Probe Set Design?}
    757 -- No --> 770[770 Correlate Probe-Set Identifiers with Probe Sets]
    770 --> 780[780 Generate Custom Array Design]
    780 --> 790[790 Generate and Provide User with Data or Web Pages]
    790 --> 745{745 Did User Accept Probe Set or Custom Array Design?}
    745 -- Yes --> 799B([799B End])
    745 -- No --> 763{763 Were Suitable Sequence Sites Verified?}
    763 -- Yes --> 765[765 Design Probe Sets for Suitable Sites and Assign Probe Set Identifiers]
    765 --> 750
    763 -- No --> 764[764 Provide Explanation To User]
    764 --> 750
```

FIGURE 8

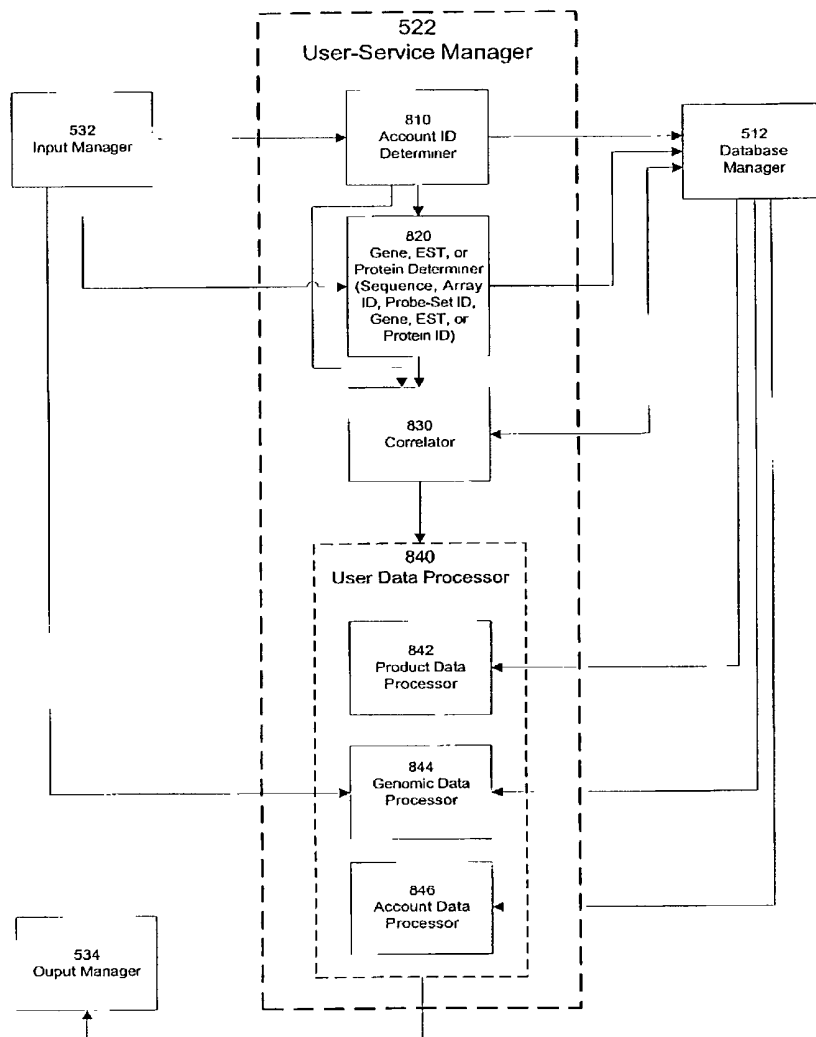


FIGURE 9

513
Gene or Probe-Set ID
to Products and/or
Genomics Databases

902 Gene or EST ID	904 Link to Probe-Set IDS 912
ID 902A	Link 904N
ID 902B	Link 904N
ID 902C	Link 904M

912 Probe-Set ID (accession #, sequence, etc.)	914 Array ID	916 Links to Related Product and/or Genomic Data IDs
Probe-Set 912A	Array 914N	Links 916A
Probe-Set 912B	Array 914N	Links 916B
Probe-Set 912C	Array 914P	Links 916C
Probe-Set 912D	Array 914Q	Links 916D
Probe-Set 912E	Array 914N	Links 916E

922 Product and/or Genomic Data ID	924 Link to Local Products Database 514 and/or Genomic Database 518	926 Links to Vendor or Genomic Database Web Pages	
	Product/Genomic ID 922A	Link 924A	Links 926A
	Product/Genomic ID 922B	Link 924B	Links 926B
	Product/Genomic ID 922C	Link 924C	Links 926C
	Product/Genomic ID 922C	Link 924D	Links 926D
	Product/Genomic ID 922D	Link 924E	Links 926E

Figure 10

518
Local Genomic
and/or Product
Database

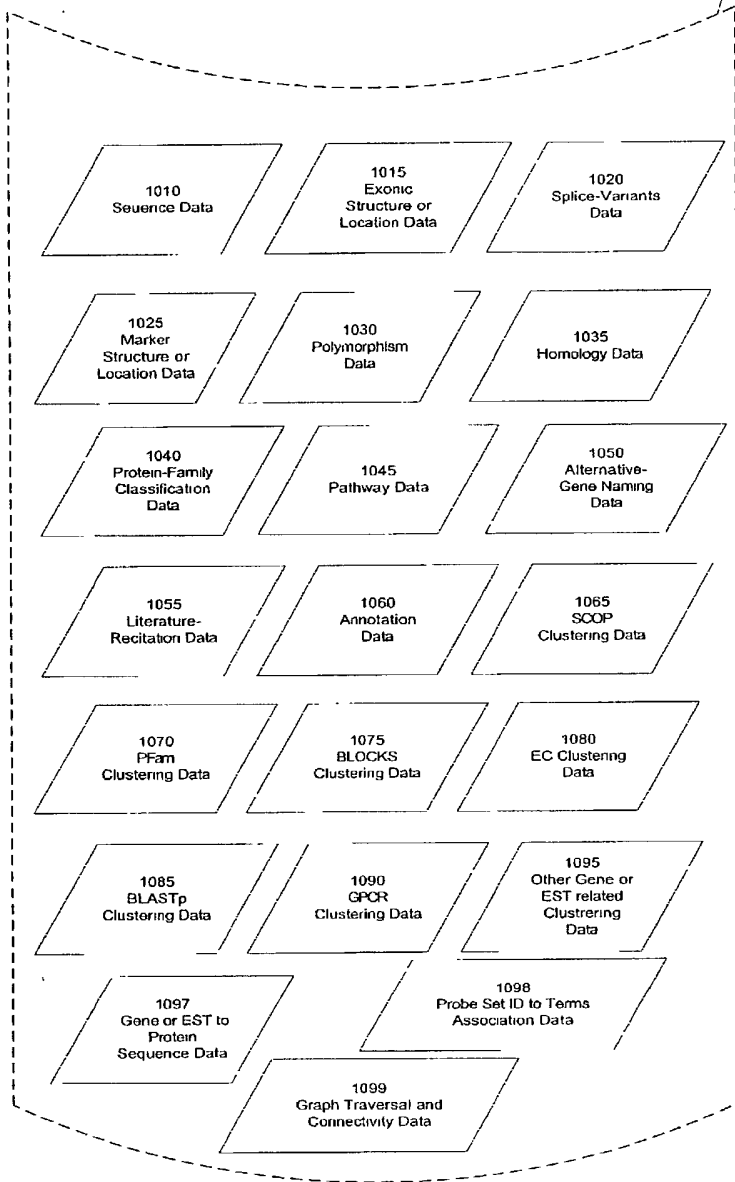


Figure 11

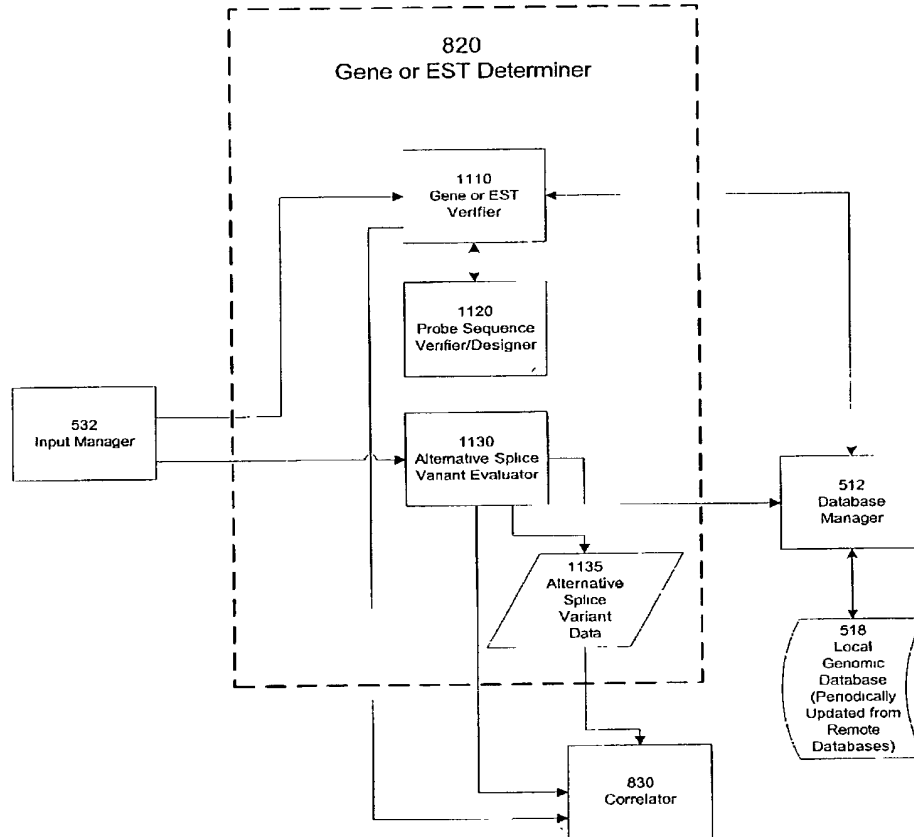


Figure 12

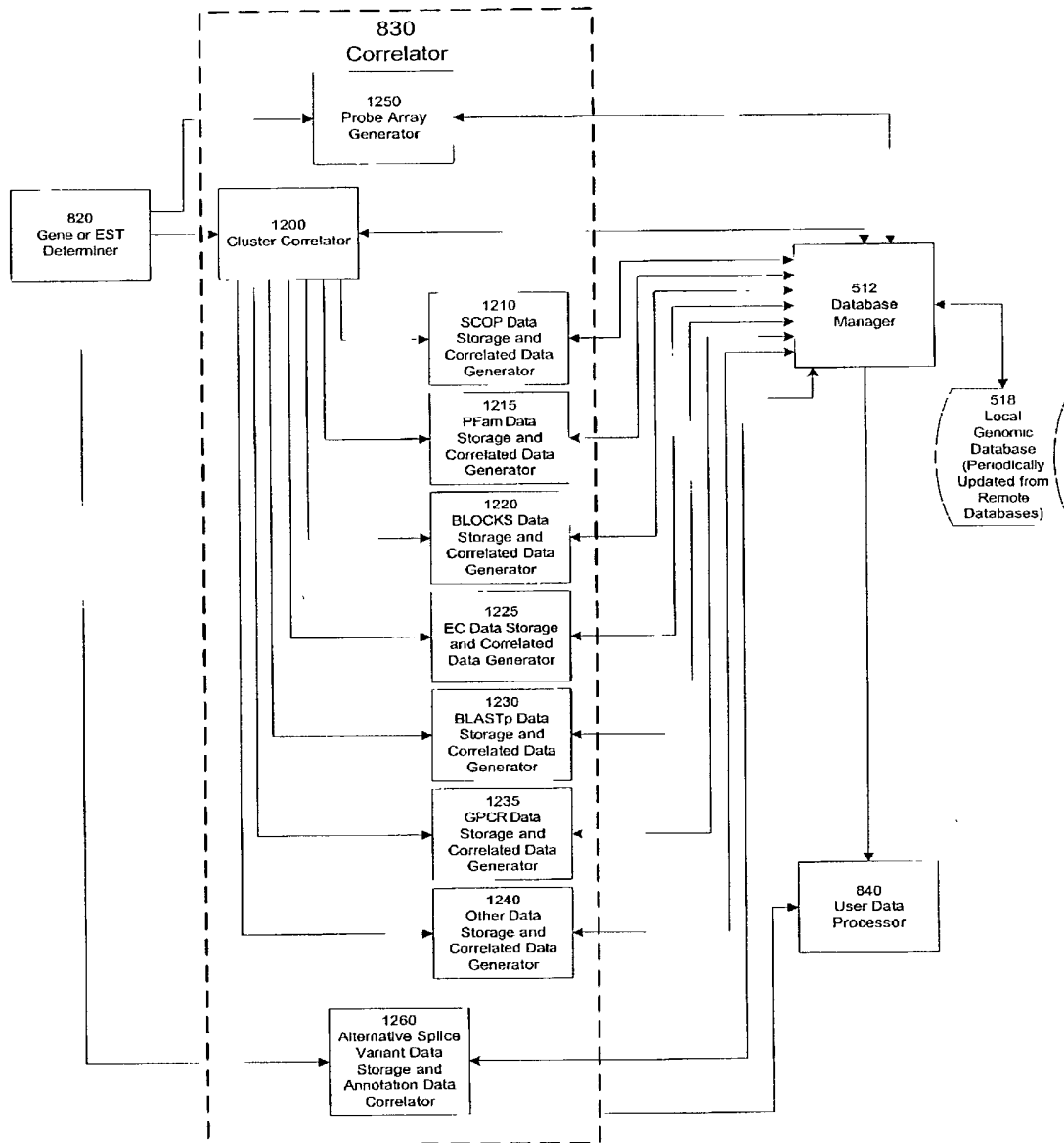


Figure 13A

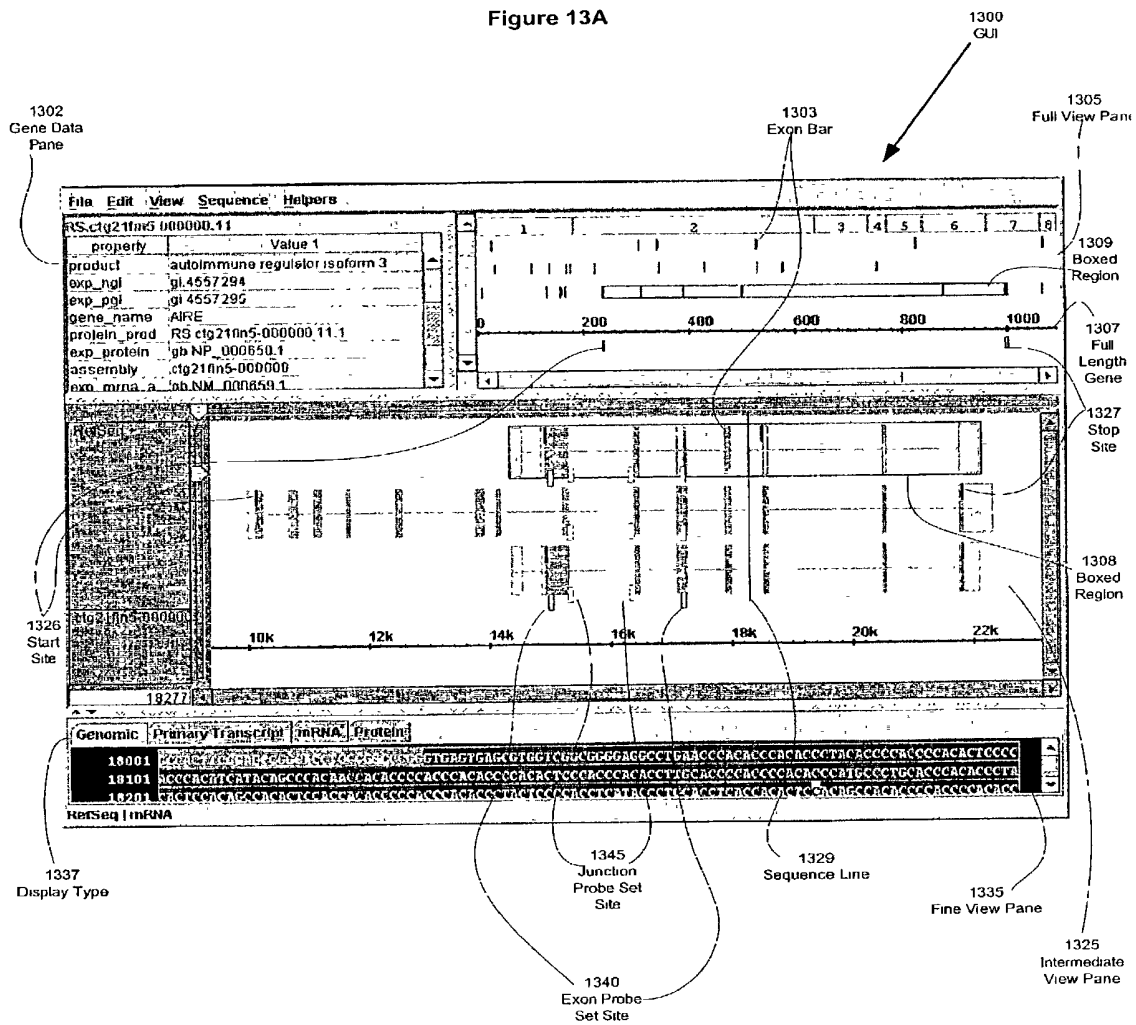


Figure 13B

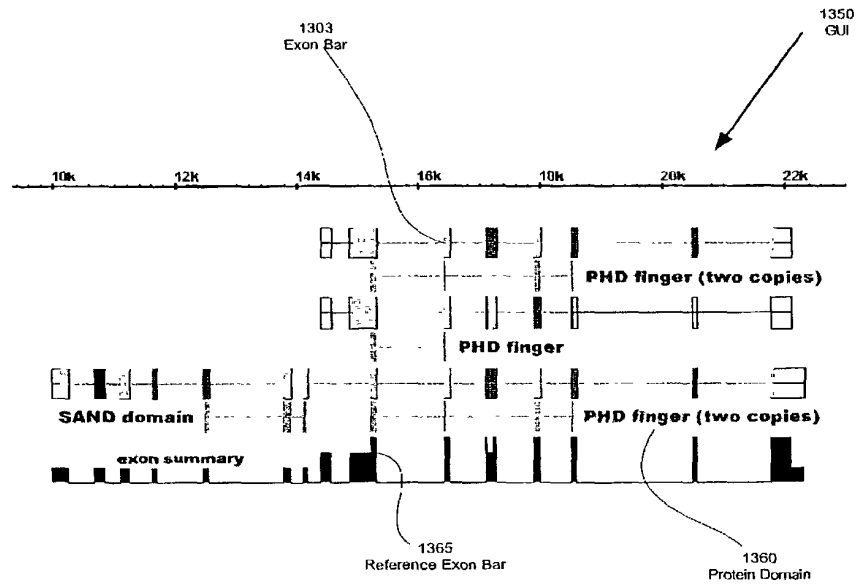


Figure 14

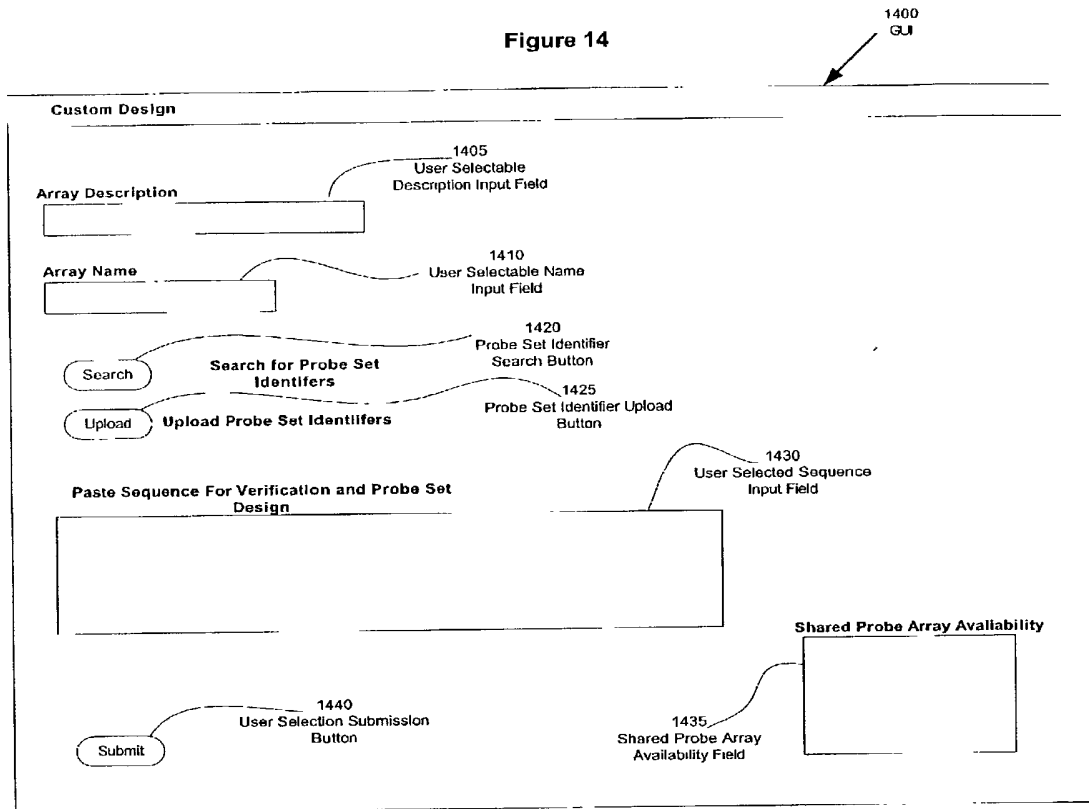


Figure 15

